Agenda

- Product Strategy & Product Update
- Current 2007 Release Update
- Forthcoming 2008 Release Strategy
- Product Roadmap Update
SmartPlant Solutions …
3D Modeling & Visualization Suite

SmartPlant®
3D

SmartPlant®
Layout

SmartPlant®
Review

SmartMarine™
3D

PDS®
SupportModeler™
FrameWorks® Plus

ISOGEN®
SPOOLGEN®
I-Sketch
I-Route
Design Productivity/ Optimization

Concurrent Engineering

Global Worksharing

Enterprise Integration

Engineering Workflow/ Lifecycle Applicability

Enabling Architecture/ Technology:

- 3D Graphics
- Database (Oracle, SQL Server)
- O/S (Windows … VISTA)
- Customization (Visual Basic … .NET)
Structured around Six core areas today …

- **Overall Quality, Application Optimization**, Software Performance & Enhancements

- **Automation** @ 2 Levels *(to support Rules, Connectivity and Relationships)*;
  - Generic  Task-Based Automation for Designers
  - Strategic  High-Level Organizational Automation

- Application **Design & Modeling Productivity** for the Designer
  - Consistent, Multi-Discipline 3D Modeling Environment
  - Design Data Reuse

- **Workshare Enabling** - to support global, concurrent engineering

- **Data/ Application Integration** with SmartPlant Enterprise/ Foundation
  - Engineering Change/ Revision Management
  - Workflow-based ‘To-Do’ List

- **3rd Party Application/ Data Integration & Optimization**
SmartPlant 3D
Current 2007 Release Update & Status

INTERGRAPH
P2C2
Status and Plans:

**Background**

- **Version 4.**
  - “Early Adopter Program”
- **Version 5.0**
  - Plant structural modeling and analysis interface
- **Version 6.0**
  - Onshore oil & gas industry, Greenfield Projects
  - 600 enhancements across all task environments
    - Greenfield project integration
    - Drawings & reports
    - Project and model translation
    - Modeling enhancements
- **Version 6.1**
  - Oracle database support, in addition to MS SQL 2000
  - SP 1 Support for MS SQL 2005 with hub-and-spoke workshare

- **2007 Release (v2007 SP3)**
  - Latest Release
3D Modeling Enhancements:
- New Industrial Architecture functions
- New Structural Curved Members
- Cableway routing, cable autorouting, & improved catalog data
- Enhancements to complex / sloping pipe design

Drawing Production Enhancements:
- Orthographic Drawings/ ISO Drawings Repeatability
- Reference/ Catalogue data enhancements

SmartPlant License Manager ~ SPLM:
- SP3D supported by SPLM allowing customers to more effectively manage their software licenses
- Translators are licensed separately

Improvements to Global Workshare

Extended Localization Support

Improved SmartPlant Enterprise (SPE) Integration:
- SmartPlant Mapping
- PDS Translator Fidelity Enhancements
- SAT Import - Performance Improvements
- SAT Export

Focus on Productivity & Quality to Sustain Plant Engineering
- Industrial Architecture – Phase I.
- Structural Modeling - Curved Members
- Automatic 3D Cable Routing - Progressive development/ integration between

- **V2006** Interactive Cable Routing
- **V2007** Auto-Cable Routing
  - Multiple Tray Routing

**Benefits:**
- True, 2-way data integration
- Increased data integrity
- Accurate MTO
- Reduced Engineering labor-hours (initial design & modifications)
SmartPlant 3D
2008 Release Strategy/ Update (Provisional)

- Continued Quality/ Performance/ Stability Improvement to support SmartPlant 3D in production

- Laser Point Cloud Support (Referencing)

- 3D Modeling Enhancements;
  - Industrial Architecture
  - Native Concrete Modeling
  - Updates to HVAC Modeling/ Spool Drawings
  - Lisega LICAD support for Hanger & Support Design

- Workshare
  - Referencing SmartPlant 3D model in separate SmartPlant 3D session

This SmartPlant 3D Product Release Strategy is designed to communicate a perspective of likely Intergraph R&D prioritization based on the current indicators of client demand. It will change both in scope and timing in response to industry demand which is quite dynamic. Intergraph retains all decision rights as to what will be included in a particular release, and does not make binding commitments outside of a written commercial contract.
Continued enhancements to the fidelity of PDS 3D project & model translation tools

- Levels 2 & 3 I18n/ Localization Enabling

- External Data Support;
  - XML (XMpLant) Import & Export

- Licensing;
  - Daily License Key Support

- Microsoft VISTA Compliance
  - Continued .NET customization enhancements
  - Office 2007/ Internet Explorer 2007 Support

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This SmartPlant 3D Product Roadmap is designed to communicate a perspective of likely Intergraph R&D prioritization based on the current indicators of client demand. It will change both in scope and timing in response to industry demand which is quite dynamic.

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Extending Productivity Enhancement to FEED

- SmartPlant Layout is a new solution for preliminary 3D plant layout
  - Proposal development
  - Early design estimates
  - Plant layout optimization
  - Not a “piping designer”

- Standalone Product
  - Based on Intergraph’s SmartPlant 3D
  - Includes a full SmartPlant 3D license
  - Concurrent user license, just like SmartPlant 3D

- Scope
  - Layout case management
  - Selected equipment, piping, structure, space management commands
  - Selected local drawings and reports
  - Interfaces with cost estimation
  - Pipe auto-routing…*Powered by Alias I-Route*

- Release Strategy to be aligned with SmartPlant 3D for 2008
SmartPlant 3D Product Update
Summary & Close
‘Next-Generation’ 3D Plant Design Solution
Continued/ Increasing Market Adoption
Major Developments planned during 2008,

New Product launched in 2007
Development closely aligned to SmartPlant 3D
Now being adopted by customers
Integrating the Engineering Enterprise...